
Product Data Sheet

Product Name: ASS1 Human
 Cat. No.: GP21425
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ASS; CTLN1; EC 6.3.4.5; ASS1; Argininosuccinate Synthase 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSSKGSVLA YSGGLDTSCI LVWLKEQGYD VIAYLANIGQ KEDFEEARKK ALKLGAKKVF IEDVSREFVE EFIWPAIQSS ALYEDRYLLG TSLARPCAR KQVEIAQREG AKYVSHGATG KGNDQVRFEL SCYSLAPQIK VIAPWRMPEF YNRFKGRNDL MEYAKQHGIP IPVTPKNPWS MDENLMHISY EAGILENPKN QAPPGLYTKT QDPAKAPNTP DILEIEFKKG VPVKVTNVKD GTTHQTSLEL FMYLNEVAGK HGVGRIDIVE NRFIGMKSRG IYETPAGTIL YHAHLDIEAF TMDREVRKIK QGLGLKFAEL VYTGFWHSPE CEFVRHCIK SQERVEGKVQ VSVLKGQVYI LGRESPLSLY NEELVSMNVQ GDYEPTDATG FININSLRLK EYHRLQSKVT AK.		
Formulation	ASS1 Human 0.5mg/ml solution containing 20mM Tris-HCl pH-8, 0.1M NaCl, 1mM DTT & 20% glycerol.		

Introduction

ASS1 is involved in the urea cycle, which is a sequence of chemical reactions that is localized in liver cells. The urea cycle processes excess nitrogen that is generated as the body uses proteins. The surplus nitrogen is used to create a molecule called urea, which is excreted from the body in urine.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ASS1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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chain containing 432 amino acids (1-412 a.a.) and having a molecular mass of 48.6 kDa. The ASS1 is fused to a 20 amino acids His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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